UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Ms. Valerie Wilder
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

Re: EPA Response to Resident Complaint Regarding Martha Rose Chem. Site RSE
Martha Rose Chemical Superfund Site, Holden, Missouri
EPA ID No. MOD980633069

Dear Ms. Wilder:

The EPA initiated a Vapor Intrusion (VI) Assessment and Removal Site Evaluation (RSE) at the Martha Rose Chemical Site on February 22, 2020. Prior to the RSE, the EPA was notified of concerns about the former Martha Rose Chemical Site from several former Holden residents. On March 5, 2020, the EPA was notified by the property owner of (b) (6) , (b) (6) that he had formerly worked at the Martha Rose Chemical site and was concerned that he may have been exposed to hazardous ub tanc from the facility H indi ated that he had previ usly worked with nc rned mmunity memb rs ab ut the ite and had ught l gal advi nc rning the matter During the pring f 2 2 , the EPA me with (b) (6) multipl time at the (b) (6) prop rty to p rform VI as ment activiti and to answer que ti ns nc rning the ite

As part f the as ment, ne indo r air ampl btained from (b) (6) had a dete ti n f TCE qual to the EPA Re idential Removal anag ment L vel (RML) Indo r Air ampl IA02- -42 and 8 8 -22 btained from (b) (6) howed TCE dete ti ns f 1 1 ppb and 2 ppb re p tively ampl 8 8 -22, btained from the firs fl r f the home, was qual to the EPA Re idential RML for TCE f 2 ppb ub- lab ampl 2- - 2 and 8 8 -21 btained from underneath the lab f the home had TCE dete ti ns f 68 ppb and ppb The ampl , btained from the ub- lab, are b l w th EPA ub- lab vap r RML for Tri hl ro thyl ne (TCE) and are al l w r than the rre p nding indo r air dete ti ns Bas d up n revi w f the ampl btained from the home, i i likely that the dete ti ns f TCE in indo r air are due to indo r urc and no the re ul f ub- urfac il ntaminati n Additi nal xteri r il vap r and ub- urfac il ampl were al btained from the prop rty and in nearby areas al ng (b) (6) No dete ti ns f TCE were b rved in ampl btained in the areas

Vap r intrusi n ampl that dete higher l v l f Volatil Organi C mp unds (VOC) in indo r air than in rre p nding ub- lab ampl normally indi ate the pre nc f an indo r urc rather than ub urfac ntaminati n P tential indo r urc uld include degreasing r l aning ag nts utilized for machinery, p removers, arp l aners, pray adhe ive and ther imilar products C ntainers r material transp rted to the home with re idual amounts f the material may al ntribute to VOC in indo r air Typi ally, i i p ibl to identify and remove the urc from the home to liminate VOCs present in indoor air.

Following the assessment samples obtained at the (b) (6) property, further coordination with the property owner was made for follow up sampling and to assist in identifying any indoor source present in the home. During the summer of 2020 the property owner died, and the remaining family members relocated. The EPA sent written correspondence to the property owners and attempted to contact family members and associates of the owners for further coordination. During additional site visits, EPA personnel observed that the property appeared to be vacant. EPA site personnel were verbally notified via telephone by the daughter of the property owner that they were not interested in additional activities associated with the assessment. The EPA sent an additional letter to the property owner on June 23, 2021 with a summary of assessment information and contact details should property owners seek assistance.

As part of the RSE, a total of 37 indoor air samples were obtained from 17 locations within both residential and commercial buildings. Of the remaining locations sampled, one additional building located at 807 W. 2nd St., had detections of TCE in indoor air. These detections were below the EPA RML for non-residential buildings. The 807 W. 2nd St. property is utilized by Scrubs on Site, a medical uniform vendor. The company stores medical uniforms and other clothing items as well as equipment for maintenance and sales at the building. Based upon comparison with sub-slab vapor samples from the facility, the dete ti ns f VOC in indo r air at rub n ite are al likely due to indo r urc related to busine p rati ns F ll wing ampling activiti , the EPA me with rub n ite ntacts to revi w as m nt data and di us p tential indo r urc with the wners

The EPA will initiate a Five Year Revi w (FYR) f the Martha Ro Chemi al ite in 2021 under the EPA up rfund Remedial Program The FYR will further revi w ite nditi ns as well as previ us remedial acti ns and as ment activiti p rform d at the ite

Pl as fe l fre to ntac me with any que ti ns r nc rns at (91) 1-7449 r via mail at Schmaedick.manuel@epa.gov.

Sincerely,

Schmaedick, Manuel
Digitally signed by Schmaedick, Manuel
Date: 2021.07.07 15:13:41 -05'00'

Manuel Schmaedick
On-Scene Coordinator
Assessment Emergency Response and Removal Branch
Superfund and Emergency Management Division

Enclosures
1. Copy of Property Data Transmittal Letter
2. Copy of EPA RSE Transmittal Letter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

JUN 2 3 2021

(b) (6)

Re: Martha Rose Chemical, Holden, Missouri - EPA Site ID: MOD980633069

Dear Property Owner:

On June 30, 2020, representatives of the U.S. Environmental Protection Agency collected indoor air and sub-slab samples from your property as listed below. These samples were collected to evaluate vapor concentrations in indoor air at and beneath your building. On October 14, 2020, letters were sent to you by the EPA with information concerning several sampling events at your property including the samples in the table below. The contaminants associated with the ongoing site investigation include tetrachloroethene (PCE) and trichloroethene (TCE). The samples were submitted for laboratory analysis of volatile organic compounds, including the site-related contaminants noted.

Sample Results: (b) (6) **Holden, Missouri**			**PCE ($\mu g/m^3$)**	**TCE ($\mu g/m^3$)**
Resident Indoor Air Removal Management Level			**42**	**2**
Resident Sub-Slab Removal Management Level			**1400**	**67**
Sample Type	Sample ID	Collection Date	PCE Result	TCE Result
Indoor Air	8580-22	6/30/2020	ND	2.0
Sub-Slab	8580-21	6/30/2020	ND	0.33

Notes: Sample ID = Sample Identification # $\mu g/m^3$ = Micrograms per cubic meter ND = Not detected

Indoor air sample 8580-22 collected on June 30, 2020, from the interior of your home indicated a detection of TCE of 2.0 µg/m3. Although this detection does not exceed EPA Vapor Intrusion Removal Management Levels (RML), it is equal to the EPA RML of 2.0 µg/m3 and therefore, additional assessment of indoor air is recommended. Sub-slab sample 8580-21 collected on June 30, 2020, from the sub-slab of your home indicated a detection of TCE of 0.33 ug/m3. This detection is below the EPA sub-slab Removal Management Level (RML).

Vapor intrusion samples that detect higher levels of VOCs in indoor air than in corresponding sub-slab samples indicate the presence of an indoor source. The sample results referenced above report sub-slab values that are below detections in indoor air. It is likely that VOCs detected in indoor air at your property are from a source inside the home. Potential indoor sources could include containers of degreasing or tool cleaning agents, spray adhesives, spot removers or other types of cleaning and maintenance products. Typically, it is possible to identify and remove the source from the home to eliminate the presence of VOC contaminants. Based upon the assessment data obtained from your property, further coordination is recommended to identify and remove any indoor sources present in the home.

As previously discussed, the EPA has attempted to contact you multiple times regarding this matter. On May 17, 2021, an EPA representative made an additional attempt to contact you and observed that your property appears to be vacant. In order to follow up on this assessment please contact the EPA contact below.

This information is being provided to you in accordance with Section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended. If you have any questions regarding the above, please contact me by phone at (913) 551-7449, by e-mail at schmaedick.manuel@epa.gov, or call toll-free at (800) 223-0425. Thank you for your cooperation in this matter.

Sincerely,

RJH for Manuel Schmaedick

Manuel Schmaedick
On-Scene Coordinator
Assessment, Emergency Response and Removal Branch
Superfund and Emergency Management Division

Enclosures
1. Letter with Samples dated June 30, 2020
2. Letter with Samples dated July 16, 2020

cc: Valerie Wilder, MoDNR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

OCT 14 2020

(b) (6)

Re: Martha Rose Chemical, Holden, Missouri - EPA Site ID: MOD980633069

Dear Property Owner:

On May 19, 2020, representatives of the U.S. Environmental Protection Agency collected exterior soil-gas samples from your property as listed below. These samples were collected to evaluate potential vapor concentrations in shallow soils near your property. The contaminants associated with the ongoing site investigation include tetrachloroethene (PCE) and trichloroethene (TCE). The samples were submitted for laboratory analysis of volatile organic compounds, including the site-related contaminants noted. Results from these sampling events are summarized in the table below.

Sample Results: (b) (6) Holden, Missouri			PCE ($\mu g/m^3$)	TCE ($\mu g/m^3$)
Resident Soil-Gas Vapor Intrusion Screening Level			**1,400**	**6.7**
Sample Type	Sample ID	Collection Date	PCE Result	TCE Result
Front Yard	8524-3	5/19/2020	ND	ND
Side Yard	8524-4	5/19/2020	ND	ND
Back Yard	8524-5	5/19/2020	ND	ND

Notes: Sample ID = Sample Identification # $\mu g/m^3$ = Micrograms per cubic meter ND = Not detected

On May 19, 2020, the EPA collected three soil-gas samples from the front yard, side yard, and backyard of your property located at (b) (6) All samples collected were below levels of health concern. The results for PCE and TCE are listed in the table above. As previously discussed, multiple rounds of sampling are anticipated to monitor concentrations. The EPA will be contacting you regarding subsequent future sampling events.

This information is being provided to you in accordance with Section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended. If you have any questions regarding the above, please contact me by phone at (913) 551-7449, by e-mail at schmaedick.manuel@epa.gov, or call toll-free at (800) 223-0425. Thank you for your cooperation in this matter.

Sincerely,

Manuel Schmaedick

Manuel Schmaedick
On-Scene Coordinator
Assessment, Emergency Response and Removal Branch
Superfund and Emergency Management Division

Enclosure

cc: Valerie Wilder, MDNR

40573711

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
Lenexa, KS 66219

06/10/2020

Results of Sample Analysis

Sample: 8524-3
Project ID: MS078D00

These are the results from the analysis of air sample number 8524-3. This sample was collected on 05/19/2020 at the location described as: Side of (b) (6) If you have any questions about these results, contact Manuel Schmaedick at the above address or by calling 913-551-7449. Correspondence should refer to sample number 8524-3 for project: MS078D00 - Rose, Martha Chemical CO.

Analysis/Analyte	Amount Found	Units
Air Volatiles Field Parameters		
Canister ID	R0488	Identification, Species or Other ID
Regulator ID	N/A	Identification, Species or Other ID
Starting Pressure	-14.73	Inch of Mercury
Ending Pressure	-1.96	Inch of Mercury
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
1,1-Dichloroethane	Less Than 8.2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2.0	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 11	Micrograms per Cubic Meter
Trichloroethene	Less Than 1.4	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
Lenexa, KS 66219

06/10/2020

Results of Sample Analysis

Sample: 8524-4
Project ID: MS078D00

These are the results from the analysis of air sample number 8524-4. This sample was collected on 05/19/2020 at the location described as: Front of (b) (6) [redacted] If you have any questions about these results, contact Manuel Schmaedick at the above address or by calling 913-551-7449. Correspondence should refer to sample number 8524-4 for project: MS078D00 - Rose, Martha Chemical CO.

Analysis/Analyte	Amount Found	Units
Air Volatiles Field Parameters		
Canister ID	703	Identification, Species or Other ID
Regulator ID	N/A	Identification, Species or Other ID
Starting Pressure	-14.73	Inch of Mercury
Ending Pressure	-1.96	Inch of Mercury
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
1,1-Dichloroethane	Less Than 8.2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2.0	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 11	Micrograms per Cubic Meter
Trichloroethene	Less Than 1.4	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
Lenexa, KS 66219

06/10/2020

Results of Sample Analysis

Sample: 8524-5
Project ID: MS078D00

These are the results from the analysis of air sample number 8524-5. This sample was collected on 05/19/2020 at the location described as: Backyard of (b) (6) If you have any questions about these results, contact Manuel Schmaedick at the above address or by calling 913-551-7449. Correspondence should refer to sample number 8524-5 for project: MS078D00 - Rose, Martha Chemical CO.

Analysis/Analyte	Amount Found	Units
Air Volatiles Field Parameters		
Canister ID	14977	Identification, Species or Other ID
Regulator ID	N/A	Identification, Species or Other ID
Starting Pressure	-14.73	Inch of Mercury
Ending Pressure	-1.96	Inch of Mercury
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
1,1-Dichloroethane	Less Than 8.2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2.0	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
1,1,1-Trichloroethane	14	Micrograms per Cubic Meter
Trichloroethene	Less Than 1.4	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

OCT 1 4 2020

(b) (6)

Re: Martha Rose Chemical, Holden, Missouri - EPA Site ID: MOD980633069

Dear Property Owner:

On June 30, 2020, representatives of the U.S. Environmental Protection Agency collected indoor air and sub-slab samples from your property as listed below. These samples were collected to evaluate vapor concentrations in indoor air at and beneath your building. The contaminants associated with the ongoing site investigation include tetrachloroethene (PCE) and trichloroethene (TCE). The samples were submitted for laboratory analysis of volatile organic compounds, including the site-related contaminants noted. Results from these sampling events are summarized in the table below.

Sample Results: (b) (6) **Holden, Missouri**			**PCE** ($\mu g/m^3$)	**TCE** ($\mu g/m^3$)
Resident Indoor Air Removal Management Level			**42**	**2**
Resident Sub-Slab Removal Management Level			**1,400**	**67**
Sample Type	Sample ID	Collection Date	PCE Result	TCE Result
Indoor Air	8580-22	6/30/2020	ND	2.0
Sub-Slab	8580-21	6/30/2020	ND	0.33

Notes: Sample ID = Sample Identification # $\mu g/m^3$ = Micrograms per cubic meter ND = Not detected

Indoor air sample 8580-22 collected on June 30, 2020, from the interior of your home indicated a detection of TCE of 2.0 µg/m3. Although this detection does not exceed EPA Resident Indoor Air Removal Management Level, additional assessment of indoor air is recommended. As previously discussed, multiple rounds of sampling are anticipated to monitor concentrations. The EPA will be contacting you regarding subsequent future sampling events.

This information is being provided to you in accordance with Section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended. If you have any questions regarding the above, please contact me by phone at (913) 551-7449, by e-mail at schmaedick.manuel@epa.gov, or call toll-free at (800) 223-0425. Thank you for your cooperation in this matter.

Sincerely,

Manuel Schmaedick

Manuel Schmaedick
On-Scene Coordinator
Assessment, Emergency Response and Removal Branch
Superfund and Emergency Management Division

Enclosure

cc: Valerie Wilder, MDNR

40573711

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
Lenexa, KS 66219

07/16/2020

Results of Sample Analysis

Sample: 8580-21
Project ID: MS078D00

These are the results from the analysis of air sample number 8580-21. This sample was collected on 06/30/2020 at the location described as: 503 - SS - Basement Laundry. If you have any questions about these results, contact Manuel Schmaedick at the above address or by calling 913-551-7449. Correspondence should refer to sample number 8580-21 for project: MS078D00 - Rose, Martha Chemical CO.

Analysis/Analyte	Amount Found	Units
Air Volatiles Field Parameters		
Canister ID	R2229	Identification, Species or Other ID
Regulator ID	NA	Identification, Species or Other ID
Starting Pressure	-28	Inch of Mercury
Ending Pressure	-4	Inch of Mercury
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
1,1-Dichloroethane	Less Than 0.82	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 0.20	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 0.34	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 1.1	Micrograms per Cubic Meter
Trichloroethene	0.33	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 0.13	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
11201 Renner Blvd
Lenexa, KS 66219

07/16/2020

Results of Sample Analysis

Sample: 8580-22
Project ID: MS078D00

These are the results from the analysis of air sample number 8580-22. This sample was collected on 06/30/2020 at the location described as: 503 - IA - Kitchen. If you have any questions about these results, contact Manuel Schmaedick at the above address or by calling 913-551-7449. Correspondence should refer to sample number 8580-22 for project: MS078D00 - Rose, Martha Chemical CO.

Analysis/Analyte	Amount Found	Units
Air Volatiles Field Parameters		
Canister ID	L5202	Identification, Species or Other ID
Regulator ID	79	Identification, Species or Other ID
Starting Pressure	-29	Inch of Mercury
Ending Pressure	-5	Inch of Mercury
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
1,1-Dichloroethane	Less Than 0.82	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 0.20	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 0.34	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 1.1	Micrograms per Cubic Meter
Trichloroethene	2.0	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 0.13	Micrograms per Cubic Meter

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Ms. Valerie Wilder
Missouri Department of Natural Resources
P.O. Box 176
Jefferson City, Missouri 65102-0176

Re: Martha Rose Chemical Superfund Site, Holden, Missouri
EPA ID No. MOD980633069

Dear Ms. Wilder:

Enclosed is a copy of the Superfund Vapor Intrusion Assessment - Removal Site Evaluation (RSE) report for the Martha Rose Chemical Site, Holden, Missouri. The RSE form is included as an attachment to the report dated February 3, 2021. Based upon the results of the vapor intrusion assessment, the EPA's Removal Program has concluded that mitigation activities for the VI pathway are currently not warranted for the site. Analysis of vapor intrusion samples at residential and commercial locations did not show any detections warranting removal action for site related compounds during the assessment.

Please feel free to contact me with any questions or concerns at (913) 551-7449 or via email at Schmaedick.manuel@epa.gov.

Sincerely,

MANUEL SCHMAEDICK
Digitally signed by MANUEL SCHMAEDICK
Date: 2021.03.08 09:25:42 -06'00'

Manuel Schmaedick
On-Scene Coordinator
Assessment Emergency Response and Removal Branch
Superfund and Emergency Management Division

Enclosure